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Work Order ID Friday, June 11, 2010										The state of the s	Page 1
Revision ID:	762-041		Accept				Se	-	tart Stop		
Start Date: 6/11/20 Required Date: 6/18/20 Reference:		1 (80)01 1101 1001		Cust Item 1 Customer:	ID:	•	_	4		1 (4221)(6) 90	11 <b>0 (81</b> 1181 1881
Approvals: Proce	ess Plan:	Date; White	Tooling: SPC (Y/N):		ate:		R		Start Stop		
Sequence ID/ Work Center ID	Operation Description		Set Up/ Run Hours	Tool ID	Tool#	Plan Code	Accept Qty	Rejec Qty		Reject Number	Insp. Stamp
Draw Nbr D3582	Revision Nbr Rev A			•		,					4
DC Document Control	DOCUMENT C		0.00 0.00 PPP D117-762-041	CHG001				,			L. H.
Skidtubes Skidtubes	2-0	mo Determine square end of tube and d Drill #30 pilot holes using DT8678. Open holes to 5/16"	0.00 eburr		10	~ 6	- 12f	, , , , , , , , , , , , , , , , , , ,			
CNC Delta 100 Bender	Me	CHINE - SKIDTUBES  The semo and tube as per program D3582 on atter pin on buggy."A". who are a fine and after the second and after the second	0.00  ONC Bender and Dwg I bonding of tube as p	03582 Use 5/16 3 and DT 963 on dung D	32 <b>,</b> 358°	2				)10	-6-14
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NCR:		V	VORK ORD	ER NON-CONFORMANC	E (NCR	)			
DATE	STEP	Description of NC Section A	Initial Chief Eng	Corrective Action Section B  Action Description Chief Eng	Sign & Date	Verifica Section		Approval Chief Eng	Approval QC Inspector
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Work Orde Friday, June 11,								:				Page 3
	D117-762-04			Accept					-	Start		
	Replacement S	kidtube								Stop		
	6/11/2010	Start Qty: 1.00 Req'd Qty: 1.00			Cust Item Customer				1 4 - -			
Reference: Approvals:	Process Pla	n:		Tooling:		Date:		:	Run	Start		
	QC:		Date:	SPC (Y/N):		Date:				Stop		
Sequence ID/ Work Center II	)	Operation Description		Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Rejo Qty		Reject Number	Insp. Stamp
		Skidtubes	•	0.00					· ———			
Skidtubes Skidtubes		<b>Memo</b> 1-Weld fwd A/R AL I 2-Grind flus	cap D2964 per dwg D358 ROD Batch: M/	0.00 2 and OSI 004 12 12 BE	= 10/06/2	8						
150 QC Quality Control		QC10- Inspect visual pe		0.00	loce 129				- ÷			

0.00

Quality Control

QC5- Inspect part completeness to step on W/O

Memo

# **Dart Aerospace Ltd**

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W/O:			W	ORK ORDER CHANG	GES				•	•
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		Section A	Chief Eng	Chief Eng		Date	Section		Chief Eng	QC Inspector
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# Work Order ID 59817

Friday, June 11, 2010 10:48:41 AM



Page 4

D117-762-041

Accept



Setup Start



**Revision ID:** 

Item Name:

**Required Date: 6/18/2010** 

Replacement Skidtube

**Start Date:** 

6/11/2010

QC:\_

Start Qty: 1.00 Req'd Qty: 1.00

**Cust Item ID:** 

**Customer:** 

Tool ID

Reference:

**Approvals:** 

Process Plan:

Date:

Date:

**Tooling:** 

SPC (Y/N):

Date:

Date:

Tool # Plan

Code

Run

Start

Stop



Number Stamp

Insp.

Stop

Reject

Qty

Sequence ID/ **Work Center ID** 

170



HandFinish

Hand Finishing

Operation Description

Chemical Conversion Coat per QSI005 4.1

Set Up/ **Run Hours** 

0.00

0.00

Qty

Accept

MAB/29

Reject

180

QC .

Quality Control

QC3- Inspect Part Finish

0.00

Memo

Memo

0.00

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Part No	•	PAR #:	Fault Cate	gory:	_ NCR: Yes	No DQA:		Date:	
	R	esolution:	Disposition	n:	_ QA: N/C (	Closed:		Date:	
NCR:			WORK ORDI	ER NON-CONFORMA	NCE (NC	R)		-	VV-40-A
DATE	STEP	Description of NC	Description of NC Corrective Action Section B Verifica				ion	Approval	Approval
	JILF	Section A	Initial Chief Eng	Action Description Chief Eng	Sign Date	& Section		Chief Eng	QC Inspector
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Work Orde Friday, June 11,								•			Page 5
Revision ID: Item Name:	D117-762-04 Replacement S 6/11/2010 6/18/2010			IN 1981	Cust Ite Custom					Start Stop Start	
Approvals:	Process Pla	n:	Date:	Tooling: SPC (Y/N):		Date:			kun .	Stop	
Sequence ID/ Work Center II  190 Skidtubes Skidtubes		2-Counter S 3-Deburr ar 4-Bond web A/R 241 S	cink X-BOLT holes ad blow out chips from the pass per Dwg D3582 Sike Flex Batch: Exp Date of the passes (D2973) ROD Batch:	om inside of tube, prep. tube for v	/ ·	D Tool#	Plan Code	Accept Qty	Reje Qty		Reject Insp. Number Stamp
200 QC Quality Control		QC10- Inspect visual pe	er QSI004- ground v		iRIO 1			A			

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W/O:			WORK ORDER CHANGES							•
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## Work Order ID 59817

Friday, June 11, 2010 10:48:41 AM



Page 6

Item ID:	D117-762-041
Revision ID:	
Item Name:	Replacement Sk
Start Date:	6/11/2010
Required Date	e: 6/18/2010

Replacement Skidtube

Start Qty: 1.00 6/11/2010 6/18/2010 Reg'd Oty: 1.00



Accept

Setup

Start Stop



Reference:

Approvals:	Process 1

QC:

Plan:

Date:

Date:

Tooling: SPC (Y/N): Date: Date:

**Cust Item ID:** 

**Customer:** 

**Tool ID** 

Run

Start



Stop

 	181	

Sequence ID/ Work Center ID

210

OC

Quality Control

Operation Description

QC5- Inspect part completeness to step on W/O

Memo

Set Up/ **Run Hours** 

0.00

Tool # Plan Code

Accept Qty

Reject Qty

Reject Insp. Number Stamp

215



HandFinish

Hand Finishing

Pressure Wash per QSI005 4.3

0.00

Memo

0.00

220



Powder Coating

White Gloss(Ref:4.3.5.1) per QSI005 4.3-Alum

0.00

0.00

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W/O:			WORK ORDER CHANGES							, <i>i</i>			
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DATE	STEP	Description of NC	Initial		Section B on Sign &		Verifica	erification	Approval	Approval			
		Section A	Chief Eng	Chief Eng		ate	Section		Chief Eng	QC Inspector			
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DATE	STEP	Section A	Initial Chief Eng				Section	C C	Approval Chief Eng	Approv QC Inspec			

	er ID 59817 2010 10:48:41 AM								Page 7			
Revision ID:	D117-762-041 Replacement Skidtube	1,000,000,000	Accept					•	Start Stop			
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Approvals:	Process Plan:	Date:	Tooling: SPC (Y/N):		Date:			Kun	Stop			
Sequence ID/ Work Center II 230 QC Quality Control	Operation Description QC3- Inspect Part Finish Memo		Set Up/ Run Hours 0.00	Tool I		Plan Code	Accept Qty	Rej Qty	1	Reject Number	Insp. Stamp	
240 HandFinish	HandFinishing  Memo Install Wearr	olate &Ground Wire inser	0.00 0.00 ts as per Dwg D3582.	al id	17/05				<u> </u>			

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Work Orde Friday, June 11, .									•			Page 8
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		n:				nte:	-	F	Run	Start Stop		
Sequence ID/ Work Center ID  250  HandFinish  Hand Finishing		c 2-Install Aft	r Foreign objects  cap as per Dwg D358:	0.00 2, Detail "C"	TOOT FOOT	Tool#	Plan Code	Accept Qty	Reje Qty		Reject Number	Insp. Stamp
		3-Install We Note:Install section E ****	0-D of dwg D3582 ****Do not install bolts Sika Flex Batch: 10	3582 , Ground Wire inserts on top of					The state of the s		·	
				2 and apply c'ring lube しいりを and QSI 005 4.4 人人 しし	1432							
260  QC  Quality Control		QC5- Inspect part compl	eteness to step on W/C	7	la Alor			<u>@</u>	-			

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Work	Orde	er ID	59817
Friday, J	une 11.	2010	10:48:41 A

280 QC

Quality Control



Page 9

Work Ord Friday, June 11												Page
Item ID: Revision ID:	D117-762-0	)41		Accept					Setup	Start		
Item Name:	Replacement	Skidtube			i r				,	Stop		
Start Date: Required Date Reference:	6/11/2010 : 6/18/2010	Start Qty: 1.00 Req'd Qty: 1.00	(		Cust Item Customer						119811181	
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	QC:		Date:	_ SPC (Y/N):	r	Date:			· •	Stop		
Sequence ID/ Work Center I 270	D	Operation Description		Set Up/ Run Hours	Tool ID	Tool#	Plan Code	Accept Qty	Rejo Qty	1	Reject Number	Insp. Stamp
Packaging		Packaging <b>Memo</b>		0.00					6	C		60
Packaging		Identify and Location: PPP Rev:_	pack for shipping as per F	_					:	•	• /	

0.00

0.00

QC21- Final Inspection - Work Order Release

Memo

## **Dart Aerospace Ltd** W/O: **WORK ORDER CHANGES Approval Approval** DATE STEP PROCEDURE CHANGE By **Date** Qty Chief Eng / QC Inspector Prod Mgr Part No: \_\_\_\_\_\_ PAR #: \_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_ Date: \_\_\_\_\_ Resolution: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_ Date: **WORK ORDER NON-CONFORMANCE (NCR)** NCR: **Corrective Action** Section B **Description of NC** Verification **Approval** DATE **STEP Approval** Sign & Initial **Action Description** Section A Section C Chief Eng QC Inspector Chief Eng **Date** Chief Eng

Picklist Print Friday, June 11, 2010	10:48:45 AM	111										Page 1/9
Work Order ID: 59817								-				
Parent Item Name: Re	-762-041 eplacement Skidtu						:	Sí	tart Date: 6/	11/2010	Required	<b>Date:</b> 6/18/2010
	PP Rev:A□07.06.1 PP Rev:B 08-02-			er dwg DD	verified by:E	С		S	Start Qty: 1.	00	Require	d Qty: 1.00
Component Item ID/ Item Name D2962-150	Replacement Item ID		Bin Item No	Primary Location	Last Location	Route Seq ID 110	Unit of Measure Each	Qty on Hand 31.0000	Qty per Ki	it Total Otv 1	Qty Issued	Date Status Issued
3.540 Outer Tube, Extrut		Manufactured	No	<u>Locatio</u> HALL	28672	Loc 140	Oty 31 31 Each	<b>Loc Code</b> 23.0000			10	)-6-14
<b>                                     </b>				<u>Locatio</u> LG		Loc		Loc Code				11/2
02971 Cross Bolt Spacer		Manufactured	No		14101	190	Each	31.0000		1	. BE	10/06/28
03584-1		Manufactured	No	<u>Locatio</u> LG	<u>n</u> 44445	<u>Loc</u> . 190	31 31 Each	<b>Loc Code</b> 0.0000	1	1		10/06/30
		Manufactured	No			190	Each	180.0000	2	B 5 9 5	385 (	y n 196/2
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# **Dart Aerospace Ltd** W/O: **WORK ORDER CHANGES** Approval **Approval PROCEDURE CHANGE** DATE STEP By Qtv Chief Eng / Prod Mgr Date QC Inspector Part No: \_\_\_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_ Resolution: \_\_\_\_\_ Disposition: \_\_\_\_ QA: N/C Closed: \_\_\_\_ Date: \_\_\_\_\_ WORK ORDER NON-CONFORMANCE (NCR) NCR: **Corrective Action** Section B **Description of NC** Verification **Approval** DATE **STEP** Approval Sign & initial **Action Description** Section A Section C Chief Eng QC Inspector Chief Eng Chief Eng Date

### **Picklist Print** Page 2 Friday, June 11, 2010 10:48:45 AM Work Order ID: 59817 Parent Item: D117-762-041 Parent Item Name: Replacement Skidtube Start Date: 6/11/2010 **Required Date:** 6/18/2010 Comments: IPP Rev:A□07.06.11□New Issue□ EC Start Qty: 1.00 Required Qty: 1.00 IPP Rev:B 08-02-22 change to revA as per dwg DD verified by:EC Component Item ID/ Replacement Mfg/ Bin **Primary** Last Route Unit of Qty on Qty per Kit Total Qty Date Status Item Name Item ID Purch Item Location Location Seq ID Measure Hand Issued Issued Otv D3662-3 Manufactured No 190 Each 29.0000 Crossbolt Spacer Location Loc Qty Loc Code LG 29 BE 10/06/30 44456 29 D3662-1 Manufactured No 190 Each 25.0000 3 Crossbolt Spacer Location Loc Oty Loc Code LG 25 BE 10/06/30 39585 5 ! 55328 20 ALS4-1032-130 Purchased No 240 5,752.000 Each 36 36 Insert Location Loc Qty Loc Code PKG11 5000 Ml 10107105 114723 5000 ST282 305 110511 38 114407 267 ST381 447 114654 447 Friday, June 11, 2010 10:48:45 AM **Shop Packet Print** Page 2

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W/O:			W	ORK ORDER CHAN	GES				9	<b>.</b>		
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Friday, June 11, 2010 10:48:45 AM					•						Page 3
Work Order ID: 59817										i	· /
Parent Item: D117-762-041			:		li adili biddi ilal ial	1					
Parent Item Name: Replacement Skidtul	be	. (198)))	(# 1##1  }##1 <del> </del>  #			l .		_	-	٠	
Comments:         IPP Rev:A□07.06.1           IPP Rev:B         08-02-	1□New Issue□ F -22 change to re	EC vA as pe	er dwg DD	verified by:E(					Pate: 6/1     Qty: 1.0		Required Date: 6/18/2010 Required Qty: 1.00
Component Item ID/ Item Name ALS4-428-165  Replacement Item ID	Mfg/ Purch	Bin	Primary Location	Last Location	Route Seq ID	Unit of Measure			per Kit	Total Otv	Qty Date Status Issued Issued
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riday, June 11, 2010 10:48:45 AM				Shop Pack	et Print	-				<del>                                     </del>	10 6 7 10 5 Page 3

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Part No	:	PAR #:	Fault Cat	egory:	_ NCR: Yes	No DQA:		Date:	
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NCR:			WORK OR	DER NON-CONFORMA	NCE (NC	R)			4-14-20-
DATE	STEP	Description of NC		Corrective Action Section		Verifica	ton	Approval	Approval
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Component Item ID/ Item Name Item ID  D3558-3  Gasket		Bin		Last Location	Route Seq ID 250	Unit of Measure Each	Qty on Hand 18.0000		er Kit Tota Otv		Qty Date State Issued Issued	ıs
Dassa o			<u>Locatio</u> FP	61391 55468	Loc (	2ty 18 6 12	Loc Code	2	$-\lambda_{I}$	الح ١	10107105	
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Dart Aerospace Ltd
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W/O:			· <b>M</b>	ORK ORDER CHANG	GES			1	4
DATE	STEP	PRO	OCEDURE CH	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector			
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Part No	:	PAR #:	Fault Ca	tegory:	NCR: Ye	es No DQ	A:	Date:	
	R	esolution:	Disposit	ion:	QA: N/C	Closed:		Date: _	
NCR:			WORK OR	DER NON-CONFORM	ANCE (N	CR)		· · · · ·	
DATE	STEP	Description of NC			Section B Verifica			Approval	Approval
DAIL	J.L.	Section A	Initial Chief Eng	Action Description Chief Eng	Sig Da	n& <sub>Sect</sub>		Chief Eng	QC Inspector
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### **Picklist Print** Page 5 Friday, June 11, 2010 10:48:45 AM Work Order ID: 59817 Parent Item: D117-762-041 Parent Item Name: Replacement Skidtube Start Date: 6/11/2010 **Required Date: 6/18/2010** Comments: IPP Rev:A□07.06.11□New Issue□ EC Start Qty: 1.00 Required Qty: 1.00 IPP Rev:B 08-02-22 change to revA as per dwg DD verified by:EC Component Item ID/ Replacement Mfg/ Bin **Primary** Last Route Oty per Kit Total Unit of Qty on **Qty** Date Item Name Status Item ID Purch Item Location Location Seq ID Measure Hand **Issued** Otv Issued D3508-11 Manufactured No 250 Each 15.0000 Wearplate Location Loc Qty Loc Code FP16 15 10/07/05 54644 15 D3508-13 Manufactured No 250 Each 14.0000 Wearplate Location Loc Qty Loc Code FP 14 4 14 10107100 D3492-051 Manufactured 250 Each 58.0000 2 HS 10107/61 Plug Assembly Location Loc Qty Loc Code FP013 58 8 50 D3492-049 Manufactured No 250 Each 33.0000 2 Plug Assembly Location Loc Qty Loc Code FP011 33 3 000767 30 20120101 Friday, June 11, 2010 10:48:45 AM **Shop Packet Print** Page 5

<b>Dart Aerospace</b>	Ltd
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W/O:			WC	ORK ORDER CHANG	ES			•	•
DATE	STEP	PRO	OCEDURE CHA	NGE	Ву	Date 0	ty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
Part No	•	PAR #:	Fault Cate	gory:	 _ NCR: Yes	No DQA: _		Date:	
Resolution: Disposition: QA: N/C Closed:						Date:			
NCR:			WORK ORDI	ER NON-CONFORMA	NCE (NCI	R)			
DATE	STEP	Description of NC	Corrective Action Section Initial Action Description			Verificati		Approval	Approval
		Section A	Chief Eng	Action Description Chief Eng	Sign a Date		<u> </u>	Chief Eng	QC Inspector
		·						·	

# **Picklist Print**

Friday, June 11, 2010 10:48:45 AM

Page 6

Work Order ID: 59817

Parent Item:

D117-762-041

Parent Item Name:

Component Item ID/

Replacement Skidtube

Comments:

IPP Rev:A□07.06.11□New Issue□ EC

Purchased

IPP Rev:B 08-02-22 change to revA as per dwg DD verified by:EC

**Start Date:** 6/11/2010

Start Qty: 1.00

Required Date: 6/18/2010

Required Qty: 1.00

Item Name D3492-053

Replacement Mfg/ Item ID

Purch Manufactured

**Primary** Item Location No

Last Location Route Seq ID 250

250

Unit of Measure Each

Qty on Hand 31.0000 Qty per Kit Total

Otv

Qty Issued

Date Status Issued

Plug Assembly

AN960JD10L

Location FP

No

No

Loc Oty 31 31 250 Each

3,779.000

Loc Code

Loc Code

NAS1149D0332J Purchased

Washer

Location ST348

110985

Loc Qty 3779 3779

Each

10/07/06

1,525.000

28

AN3C4A

BOLT

Location ST350 114103 114108

114416 114523 Loc Oty Loc Code 1525 501 14 12 2 996

10/07/05 X 28

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;W/O:			WORK ORDER CHANGES						3/ 3		
DATE	STEP	PRO	CEDURE CH	IANGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	
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Part No: PAR #:						<b>1</b>					
NCR:		V	WORK OR	DER NON-CONFORM	<b>IANCE</b>	(NCR)	)				
DATE	STEP	Description of NC Section A	Initial Chief Eng	Corrective Action Se Action Description Chief Eng	ection B	Sign & Date	Verifica Section		Approval Chief Eng	Approval QC Inspector	
			Office Eng	One Ling		Date					
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### **Picklist Print** Page 7 Friday, June 11, 2010 10:48:45 AM Work Order ID: 59817 Parent Item: D117-762-041 Parent Item Name: Replacement Skidtube Start Date: 6/11/2010 Required Date: 6/18/2010 IPP Rev:A□07.06.11□New Issue□ EC Comments: Start Qty: 1.00 Required Qty: 1.00 IPP Rev:B 08-02-22 change to revA as per dwg DD verified by:EC Component Item ID/ Replacement Mfg/ Bin Last Primary Route Unit of Qty per Kit Total Qty on Qty Date Status Item Name Item ID Purch Item Location Location Seq ID Measure Hand Issued Issued Otv AN3C5A Purchased No 250 Each 352.0000 Bolt Location Loc Qty Loc Code ST350 337 114330 11 114523 18 10102/05 (14808) 308 ST351 15 113121 10 114108 5 AN960JD416L NAS1149D0416J Purchased No 250 Each 371.0000 Washer Location Loc Oty Loc Code ST346 371 10107105 **(10153)** 371 AN960C10L NAS1149C0332 Purchased No 250 Each 0.0000 28 X1 115000 washer

Dart Aer	ospace Ltd
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W/O:		WORK ORDER CHANGES					3			
DATE	STEP	PRO	CEDURE CH	IANGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
Part No	:	PAR #:	Fault Ca	tegory:	NC	R: Yes	No <b>DQA</b> :		Date:	
Resolution: Disposition: QA: N/C Closed:						Date:				
NCR:		V	ORK OR	DER NON-CONI	FORMANC	E (NCR	)			
DATE	STEP	Description of NC	Corrective Action Section			Varitica			Approval	Approval
		Section A	Initial Chief Eng	Action Desc Chief En	ription g	Sign & Date	Section		Chief Eng	QC Inspector
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Friday, June 11, 2010	10:48:45 AM													Page 8
Work Order ID: 5981	17						!							
Parent Item: D11	7-762-041													
Parent Item Name:	Replacement Skidtu	ibe	1 1881	1112 1881 ILBA ILBA ILBA		1 \$5151 B1201  181  183		s	start Date	: 6/11/201	0	Required	Date: 6/13	2/2010
Comments:	PP Rev:A□07.06.1 PP Rev:B 08-02	1□New Issue□ -22 change to r	EC evA as p	oer dwg DI	overified by:EO				Start Qty				d Qty: 1.00	
Component Item ID/ Item Name AN4-4A Bolt	Replacement Item ID		Bin	Primary Location	Last Location	Route Seq ID 250	Unit of Measure Each	<b>Qty on Hand</b> 224.0000	Qty per	Kit To	otal tv :	Qty Issued	Date Issued	Status
				Locatio ST356 ST361	114615 111295	Loc 0	200 200 24 6 18	Loc Code		×	12	el rolo	3105	
NAS1611-012	8) HARRY BRIDG HARR HAR TARA	Purchased	No			250	Each	122.0000	6	6		-		
				<u>Locatio</u> FP	08673 113845		<u>Oty</u> 122 21 101	Loc Code		<u>X</u>	بار ہا	u colo	7105	
NAS1611-015		Purchased	No			250	Each	9.0000	2	2				
				<u>Location</u> FP	<u>n</u>	<u>Loc C</u>	9 9 9	Loc Code		_X Z	2 入	10104	105	
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Friday, June 11, 2010	10:48:45 AM				Shop Pacl	cet Print								Page 8

# **Dart Aerospace Ltd** W/O: **WORK ORDER CHANGES Approval Approval** DATE STEP PROCEDURE CHANGE By Date **Q**ty Chief Eng / QC Inspector Prod Mgr Part No: \_\_\_\_\_\_ PAR #: \_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_ Date: \_\_\_\_\_ Resolution: \_\_\_\_\_ Disposition: \_\_\_\_ QA: N/C Closed: \_\_\_\_ Date: \_\_\_\_\_ **WORK ORDER NON-CONFORMANCE (NCR)** NCR: **Corrective Action** Section B **Description of NC** Verification DATE STEP **Approval Approval** Initial **Action Description** Sign & Section A Chief Eng QC Inspector Section C Chief Eng Chief Eng Date

### **Picklist Print** Page 9 Friday, June 11, 2010 10:48:45 AM Work Order ID: 59817 Parent Item: D117-762-041 Parent Item Name: Replacement Skidtube **Start Date:** 6/11/2010 Required Date: 6/18/2010 Start Qty: 1.00 Comments: IPP Rev:A□07.06.11□New Issue□ EC Required Qty: 1.00 IPP Rev:B 08-02-22 change to revA as per dwg DD verified by:EC Component Item ID/ Replacement Mfg/ Bin Primary Last Unit of Qty per Kit Total Route Qty on Date Qty Status Item Name Item Location Item ID Purch Location Seq ID Measure Hand Issued Issued Otv NAS1611-016 Purchased No 250 Each 113.0000 2 O-RING Location Loc Qty Loc Code FP 113 x7 H 10/07/05 07178 112492 13 50 113524 50

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W/O:		WORK ORDER CHANGES						i 2		
DATE	STEP	PRO	OCEDURE CH	ANGE		Зу	Date	Oty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part Ńo	Part No: PAR #: Fault Category: NCR: Yes No DQA:									
Resolution: Disposition: QA: N/C Closed:						┫	Date:			
NCR:			WORK ORI	DER NON-CONFORM	ANCE (	NCR)				
DATE	STEP	Description of NC	Initial	Corrective Action Section B Initial Action Description			Sign & Verificat			Approval
		Section A	Chief Eng	Chief Eng		Date	Sectio	n <b>C</b>	Chief Eng	QC Inspector
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PARTS LIST FOR D3582-041 SKIDTUBE ASSEMBLY

Qty	Part Number	Description
X	D3582-041	SKIDTUBE ASSEMBLY
1	D2962-150	EXTRUSION
1	D2964	CAP
1	D2965	CAP
11	D2971	CROSS BOLT SPACER
2	D2973	CROSS BOLT SPACER
2	D3492-049	PLUG ASSEMBLY
2	D3492-051	PLUG ASSEMBLY
6	D3492-053	PLUG ASSEMBLY
1	D3508-3	WEARPLATE
1	D3508-9	WEARPLATE
1	D3508-11	WEARPLATE
1	D3508-13	WEARPLATE
1	D3558-3	GASKET
1	D3558-9	GASKET
1	D3558-11	GASKET
_ 1	D3558-13	GASKET
_1	D3584-1	WEB
3	D3662-1	CROSS BOLT SPACER
1	D3662-3	CROSS BOLT SPACER
36	AELS-1032-130	INSERT
2	ALS7-428-165	INSERT
28	AN3C4A	BOLT
2	AN3-5A	BOLT
2	AN4-4A	BOLT
28	AN960C10L	WASHER
2	AN960JD10L	WASHER
2	AN960JD416L	WASHER

### GENERAL NOTES:

- ALL DIMENSIONS ARE IN INCHES

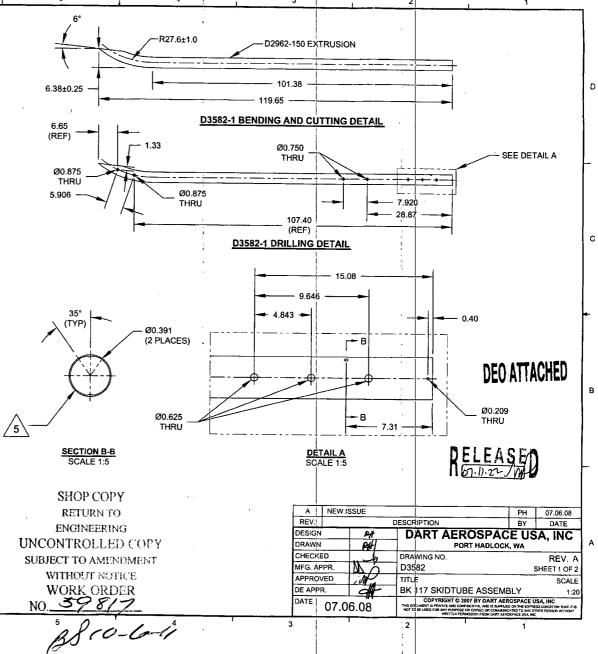
- TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
  WELDING TO BE DONE PER DART QSI 004.
  INSERT D3584-1 WEB TO LOCATION SHOWN OFF AFT END OF SKIDTUBE AND BOND WEB INTO OUTER TUBE WITH NON-STRUCTURAL SIKAFLEX-241/-291 ADHESIVE PER
- DART QSI 015 AFTER BENDING.

  USE DART DRILL TEMPLATE DT8900 TO LOCATE AND DRILL Ø0.297 HOLES (38 PLACES) FOR WEARSHOE INSERTS. INSTALL AELS-1032-130 PER SECTION G-G (36 PLACES) AFTER FINISH. SEAL WEARPLATE BOLTS WITH SIKAFLEX-241/-291.
- DO NOT INSTALL AN3C4A BOLTS AND AN960C10L WASHERS IN INDICATED LOCATIONS.
- - A) CHEMICAL CONVERSION COAT PER DART QSI 005 4.1 PRIOR TO INSERTING

  - D3584-1 WEB.

    B) POWDER COAT ASSEMBLY GLOSS WHITE (REF 4.3.5.1) PER DART QSI 005 4.3.

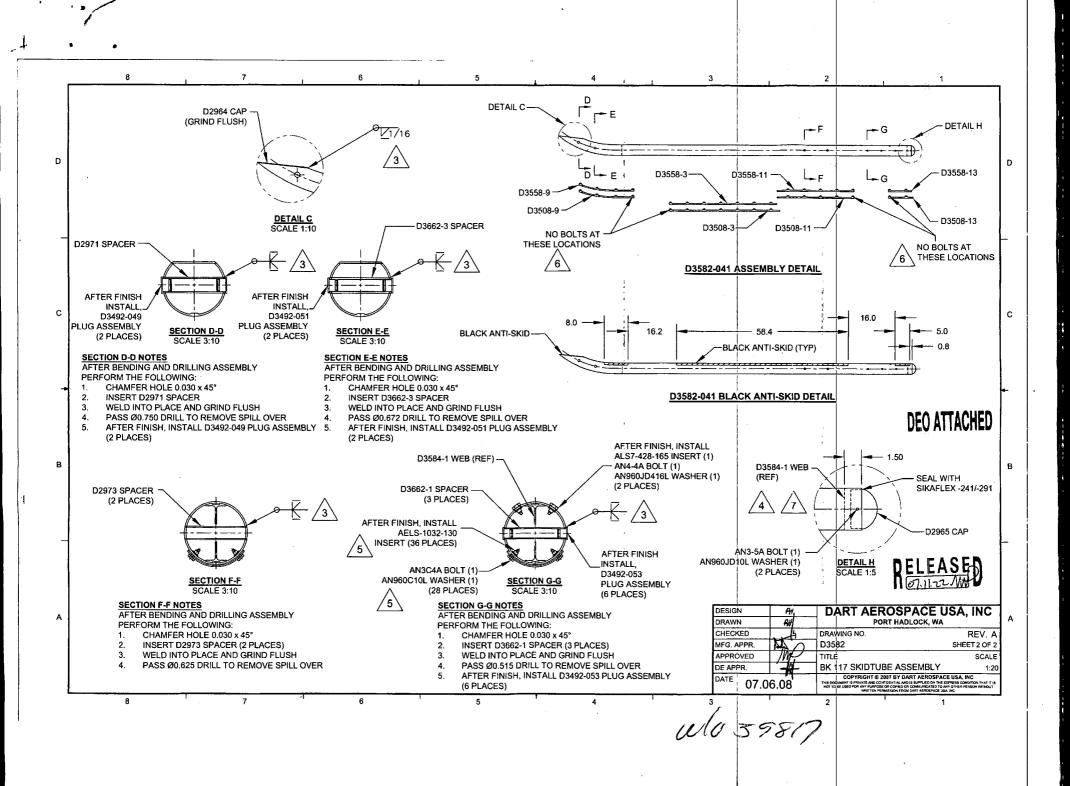
    C) ANTI-SKID PAINT AS INDICATED TO 1.00 ABOVE CENTER LINE PER DART QSI



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Part No	•	PAR #:	Fault Cat	egory:	_ NCR: Yes	No DQA:	1	Date:		
Resolution: Disposition: QA: N/C Closed:					<u> </u>	Date: _				
NCR:			WORK ORI	DER NON-CONFORMA	NCE (NCI	<b>R</b> )				
DATE	STEP	Description of NC Corrective Action			Section B Verification			Approval	Approval	
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Part No: PAR #:		PAR #:	Fault Ca	tegory:	NCI	R: Yes N	lo DQA:	<u></u>	Date: _		
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NCR:			WORK OR	DER NON-CONFO	RMANCE	(NCR)					
DATE	STEP	Description of NC			Section B	Verificat		tion	Approval	Approval	
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DRAWING NO. TITLE REV. A DART AEROSPACE USA, INC D.E.O. NO. SHEET NO. D3582 BK 117 SKIDTUBE ASSEMBLY **SCALE ENGINEERING ORDER** D3582-A-1 SHEET 1 OF 1 NTS DRAWN PH CHECKED MFG. APPR. APPROVED DE APPR. DATE 09.04.06 04.04.06 DATE 09.04.06 DATE DATE 09.04.06 DATE FOR EASE OF MANUFACTURE AND TO ENSURE THE FIT OF BRISTOL WIRESTRIKE SKID GEAR DEFLECTOR: UPDATE DIMENSIONING OF 2 FWD HOLES ON SHEET 1 AS SHOWN IS: 6.65 -Ø0.875 THRU 5.906 Ø0.875 THRU 6.65 (REF) WAS: 1.33 Ø0.875 THRU 5.906 Ø0.875 THRU 107.40 W1039817 (REF) COPYRIGHT © 2009 BY DART AEROSPACE USA, INC
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WRITTEN PERMISSION FROM DATA TENDSPACE USA, INC.

Dart Aerospace	<b>Ltd</b>	
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W/O:		WORK ORDER CHANGES							€ 2 €		
DATE	STEP	PRO	OCEDURE CH	HANGE By Date			Date	Qty	Approval QC Inspector		
				NA					Prod Mgr	•	
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Part No	•	PAR #:	Fault Car	togon.	NOD	. V	1- 004				
			Disposition: WORK ORDER NON-CONFORMA						Date:		
NCR:		-				(NCH)					
DATE STEP		Description of NC Section A	Corrective Action Secondarial   Action Description		tion B	on B Sign &		on	Approval Chief Eng	Approval QC Inspector	
-			Chief Eng	Chief Eng		Date	Section		Office Eng	———	
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NO. <u>220</u>

# AWS D17.1.2001 QUALIFICATION TEST RECORD

Name: Barchay Ellistt	
Job number: 54121	
Part number: Nin-762-041	
Description: 117 sk.d tube	
Welding Process: Tig[/] Mig[]	
Base materiel: Aluminium	
Current: AC[\[] DC[ ]	

# TEST REQUIREMENTS AND RESULTS

Visual: Penetration:	pass[√] pass[√]	fail[ ] fail[ ]
<u>UNACCEPTABLE</u>		
Cracks: Undercut: Pin holes: Overlap (cold lap) Porosity (surface): Coloration:	pass[/] pass[/] pass[/] pass[/] pass[/]	fail[ ] fail[ ] fail[ ] fail[ ] fail[ ] fail[ ]
Qualifier la De Welder Barlange Hist		st-Coupon <u>©9-/2+0</u> est Coupon <u>09//2//0</u>

The above named individual is qualified in accordance with AWS D17.1.2001 to weld